

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-27 (canceled)

Claim 28 (currently amended): An isolated peptide or polypeptide comprising an amino acid sequence of at least residues 56-62 of SEQ ID NO:19 ~~and of which up to 183 contiguous amino acid residues can be derived from residues 56-239 of SEQ ID NO:19, wherein the isolated peptide or polypeptide comprises less than 184 contiguous amino acid residues derived from residues 56-239 of SEQ ID NO:19 and wherein the isolated peptide or polypeptide is capable of specifically binding to at least a portion of an Inhibitor of Apoptosis protein.~~

Claim 29 (original): The isolated peptide or polypeptide of claim 28, wherein said portion is at least one BIR domain.

Claim 30 (original): The isolated peptide or polypeptide of claim 29, wherein said BIR domain is BIR1.

Claim 31 (original): The isolated peptide or polypeptide of claim 29, wherein said BIR domain is BIR2.

Claim 32 (original): The isolated peptide or polypeptide of claim 29, wherein said BIR domain is BIR3.

Claim 33 (previously presented): The isolated peptide or polypeptide of claim 28, wherein said specific binding is to a full-length IAP.

Claims 34-35 (canceled)

Claim 36 (currently amended): An isolated Smac peptide or polypeptide comprising an amino acid sequence of at least seven contiguous amino acid residues from at least residues ~~56-139-85~~ of SEQ ID NO:19 ~~and of which up to 183 contiguous amino acid residues can be from residues 56-239 of SEQ ID NO:19~~, wherein the isolated peptide or polypeptide comprises less than 184 contiguous amino acid residues derived from residues 56-239 of SEQ ID NO:19 and wherein the isolated Smac peptide or polypeptide is capable of specifically binding to at least a portion of an Inhibitor of Apoptosis protein.

Claim 37 (original): The isolated peptide or polypeptide of claim 36, wherein said portion is at least one BIR domain.

Claim 38 (original): The isolated peptide or polypeptide of claim 37, wherein said BIR domain is BIR1.

Claim 39 (original): The isolated peptide or polypeptide of claim 37, wherein said BIR domain is BIR2.

Claim 40 (original): The isolated peptide or polypeptide of claim 37, wherein said BIR domain is BIR3.

Claim 41 (previously presented): The isolated peptide or polypeptide of claim 36, wherein said specific binding is to a full-length IAP.

Claim 42 (original): The isolated peptide or polypeptide of claim 36, wherein said peptide or polypeptide has an amino acid sequence of at least Ala-Val.

Claim 43 (original): The isolated peptide or polypeptide of claim 36, wherein said peptide or polypeptide has an amino acid sequence of at least the sequence provided in SEQ ID NO:13.

Claim 44 (currently amended): An isolated Smac peptide or polypeptide consisting of an amino acid sequence of at least seven contiguous amino acid residues from at least residues ~~56-139-85~~ of SEQ ID NO:19 ~~and of which up to 183 contiguous amino acid residues can be from residues 56-239 of SEQ ID NO:19~~, wherein the isolated peptide or polypeptide comprises less than 184 contiguous amino acid residues derived from residues 56-239 of SEQ ID NO:19 and wherein the isolated Smac peptide or polypeptide is capable of specifically binding to at least a portion of an Inhibitor of Apoptosis protein.

Claim 45 (original): The isolated peptide or polypeptide of claim 44, wherein said portion is at least one BIR domain.

Claim 46 (original): The isolated peptide or polypeptide of claim 45, wherein said BIR domain is BIR1.

Claim 47 (original): The isolated peptide or polypeptide of claim 45, wherein said BIR domain is BIR2.

Claim 48 (original): The isolated peptide or polypeptide of claim 45, wherein said BIR domain is BIR3.

Claim 49 (previously presented): The isolated peptide or polypeptide of claim 44, wherein said specific binding is to a full-length IAP.

Claim 50 (original): The isolated peptide or polypeptide of claim 44, wherein said peptide or polypeptide has an amino acid sequence of at least Ala-Val.

Claim 51 (original): The isolated peptide or polypeptide of claim 44, wherein said peptide or polypeptide has an amino acid sequence of at least the sequence provided in SEQ ID NO:13.

Claims 52-96 (canceled)

